UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

FIRST AMENDMENT TO THE CLASSIFICATION AND CORRELATION OF THE SOILS OF MADISON COUNTY, INDIANA

APRIL 2006

This amendment results from digitizing the Madison County Soil Survey, the update of the NASIS database, and conforming to the Keys to Soil Taxonomy, 9th Edition, 2003.

AMENDMENT NO. 1

Soil Correlation – Add the following map units:

Field symbols	Field map unit name	Publication symbol	Approved map unit name
Limestone Quarry	Limestone Quarry	Uby	Udorthents, loamy
City Dump	City dump	Usl	Udorthents, rubbish
Water, W	Water	W	Water

The "Uby – Udorthents, loamy" map unit is added for an area labeled as “Limestone Quarry” in the published soil survey (Sheet No. 51). This area is no longer used as a quarry, with the pit now being water and the remainder of the area having been disturbed by human activity supporting some vegetation.

The "Usl – Udorthents, rubbish" map unit is added for an area labeled as “City Dump” in the published soil survey (Sheet No. 16). This area is no longer used as a dump and is now supporting vegetation.

Soil Correlation – Change the following approved map unit names:

Field symbols	Field map unit name	Publication symbol	Approved map unit name
Cm	Carlisle muck	Cm	Houghton muck, drained, 0 to 1 percent slopes
Lm	Linwood muck	Lm	Palms muck, drained, 0 to 1 percent slopes

The following legend replaces the Soil Legend form the March 1967 Published Soil Survey:

SOIL MAP LEGEND
Madison County, Indiana: Detailed Soil Map Legend

Map symbol	Soil name
BoA	Blount silt loam, 0 to 2 percent slopes
BoB2	Blount silt loam, 2 to 6 percent slopes, moderately eroded
Br	Brookston silt loam
Bs	Brookston silty clay loam
CaA	Camden silt loam, 0 to 2 percent slopes
CaB2	Camden silt loam, 2 to 6 percent slopes, moderately eroded
Cm	Houghton muck, drained, 0 to 1 percent slopes
CnA	Celina silt loam, 0 to 2 percent slopes
CnB2	Celina silt loam, 2 to 6 percent slopes, moderately eroded
Cp	Clay pits
CrA	Crosby silt loam, 0 to 2 percent slopes
CrB2	Crosby silt loam, 2 to 6 percent slopes, moderately eroded
Ed	Edwards muck
Es	Eel silt loam
FaA	Fox fine sandy loam, 0 to 2 percent slopes
FaB	Fox fine sandy loam, 2 to 6 percent slopes
FoA	Fox silt loam, 0 to 2 percent slopes
FoB2	Fox silt loam, 2 to 6 percent slopes, moderately eroded
FoC2	Fox silt loam, 6 to 12 percent slopes, moderately eroded
FoD2	Fox silt loam, 12 to 18 percent slopes, moderately eroded
FrA	Fox silt loam, limestone substratum, 0 to 2 percent slopes
FsA	Fox silt loam, till substratum, 0 to 2 percent slopes
FsB	Fox silt loam, till substratum, 2 to 6 percent slopes
FsB2	Fox silt loam, till substratum, 2 to 6 percent slopes, moderately eroded
FsC	Fox silt loam, till substratum, 6 to 12 percent slopes
FsC2	Fox silt loam, till substratum, 6 to 12 percent slopes, moderately eroded
FtC3	Fox soils, 6 to 12 percent slopes, severely eroded
FxB3	Fox soils, till substratum, 2 to 6 percent slopes, severely eroded
Gn	Genesee silt loam
Gr	Gravel pits
HeF2	Hennepin soils, 18 to 35 percent slopes, eroded
Hm	Homer silt loam
Hn	Homer silt loam, limestone substratum
Kc	Kokomo silty clay loam
Kg	Kokomo silty clay loam, gravelly substratum
Km	Kokomo silty clay loam, stratified substratum
Ks	Kokomo mucky silt loam, stratified substratum
Kt	Kokomo mucky silty clay loam, gravelly substratum
Lm	Palms muck, drained, 0 to 1 percent slopes

SOIL MAP LEGEND--Continued
Madison County, Indiana: Detailed Soil Map Legend

Map symbol	Soil name
Ma	Made land
Mh	Mahalasville silt loam
Ml	Mahalasville silty clay loam
Mm	Mahalasville silty clay loam, limestone substratum
MnA	Miami silt loam, 0 to 2 percent slopes
MnB2	Miami silt loam, 2 to 6 percent slopes, moderately eroded
MnC2	Miami silt loam, 6 to 12 percent slopes, moderately eroded
MnD2	Miami silt loam, 12 to 18 percent slopes, moderately eroded
MnE2	Miami silt loam, 18 to 25 percent slopes, moderately eroded
MpB3	Miami soils, 2 to 6 percent slopes, severely eroded
MpC3	Miami soils, 6 to 12 percent slopes, severely eroded
MpD3	Miami soils, 12 to 18 percent slopes, severely eroded
MpE3	Miami soils, 18 to 25 percent slopes, severely eroded
MrB2	Morley silt loam, 2 to 6 percent slopes, moderately eroded
MrC2	Morley silt loam, 6 to 12 percent slopes, moderately eroded
MrD	Morley silt loam, 12 to 18 percent slopes
MsB3	Morley soils, 2 to 6 percent slopes, severely eroded
MsC3	Morley soils, 6 to 12 percent slopes, severely eroded
MsD3	Morley soils, 12 to 18 percent slopes, severely eroded
OcA	Ockley silt loam, 0 to 2 percent slopes
OcB	Ockley silt loam, 2 to 6 percent slopes
Pc	Pewamo silty clay loam
RdE2	Rodman soils, 12 to 50 percent slopes, eroded
Ro	Ross loam
Rs	Ross silt loam
Sh	Shoals silt loam
Sl	Sleeth silt loam
Sm	Sleeth silt loam, loamy substratum
So	Sloan silt loam
Uby	Udorthents, loamy
Usl	Udorthents, rubbish
Wa	Wallkill complex
Wc	Washtenaw complex
W	Water
Wd	Westland silty clay loam
Ws	Westland silty clay loam, moderately deep

Replace the “Conventional Signs” symbols legend from the published survey, with the attached Indiana Official 37A for Compilation, Digitizing, and DMF, Revised June 30, 2004.

Only the following standard landform and miscellaneous surface features will be shown on the legend and placed on the digitized soil maps:

Feature	Name	Description
ESO	Escarpment, nonbedrock	A relatively continuous and steep slope or cliff, which generally is produced by erosion but can be produced by faulting, that breaks the continuity of more gently sloping land surfaces. Exposed earthy material is nonsoil or very shallow soil.
GPI	Gravel pit	An open excavation from which soil and underlying material have been removed and used, without crushing, as a source of sand or gravel. Typically 0.2 to 2 acres.
GUL	Gully	A small channel with steep sides cut by running water through which water ordinarily runs only after a rain, or after ice or snow melts. It generally is an obstacle to wheeled vehicles and is too deep to be obliterated by ordinary tillage.
MAR	Marsh or swamp	A water-saturated, very poorly drained area, intermittently or permanently covered by water. Sedges, cattails, and rushes dominate marsh areas. Trees or shrubs dominate swamps. Not used in map units where the named components are poorly or very poorly drained. Typically 0.2 to 2 acres.
ROC	Rock outcrop	An exposure of bedrock at the surface of the earth. Not used where the named soils of the surrounding map units are shallow over bedrock or where “Rock outcrop” is a named component of the map unit. Typically 0.2 to 2 acres.
WET	Wet spot	A somewhat poorly drained to very poorly drained area that is at least two drainage classes wetter than the named soils in the surrounding map unit. Typically 0.2 to 2 acres.

Only the following ad hoc features will be shown on the legend and placed on the digitized soil maps:

Label	**Symbol_ID**	**Name**	**Description**
UWT	44	Unclassified water	Small, natural or man-made lake, pond, or pit that contains water, of an unspecified nature, most of the year. Typically 0.2 to 2 acres.

Indiana Official 37A For
Compilation, Digitizing, and DMF
Revised June 30, 2004

Soil Survey Area: MADISON COUNTY

State: Indiana

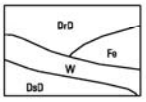
FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

Date: OCTOBER 2005

SOIL SURVEY FEATURES

SOIL DELINEATIONS AND LABELS



STANDARD LANDFORM AND MISCELLANEOUS SURFACE FEATURES

- Bedrock escarpment
- Nonbedrock escarpment
- Gully
- Levee
- Short steep slope
- Blowout
- Borrow pit
- Clay spot
- Closed depression
- Gravel pit
- Gravelly spot
- Landfill
- Marsh or swamp
- Mine or quarry
- Rock outcrop
- Sandy spot
- Severely eroded spot
- Sinkhole
- Slide or slip
- Spoil area
- Stony spot
- Very stony spot
- Wet spot

AD HOC FEATURES (Describe on back)

LABEL	SYMBOL ID	SYMBOL	LABEL	SYMBOL ID	SYMBOL
DCS	1		CRG	23	
DKS	2		MTA	24	
OVW	3		CGM	25	
VWG	4		HIL	26	
EAS	5			27	
MAS	6		SID	28	
SAS	7			29	
CAF	8		WDC	30	
CAL	9			31	
SLR	10			32	
DUM	11			33	
BRV	12			34	
BRM	13		MRL	35	
BRD	14			36	
OBR	15			37	
SSR	16		SAM	38	
LBR	17			39	
WDP	18		VSE	40	
SBR	19			41	
COB	20			42	
CNS	21			43	
FES	22		OWT	44	

CULTURAL FEATURES (Optional)

BOUNDARIES

- National, state or province
- County or parish
- Minor civil division
- Reservation (Military)
- Land grant (Optional)
- Field sheet matchline and neatline
- Public Land Survey System Section Corner Tics

GEOGRAPHIC COORDINATE TICK

ROAD EMBLEMS

- Interstate
- Federal
- State

LOCATED OBJECTS

- Airport (Label only) — Davis Airport or Airstrip

HYDROGRAPHIC FEATURES (Optional)

- Drainage end (indicates direction of flow)
- Unclassified stream

Replace the Classification of the Soils table with the following, amended per Keys to Soil Taxonomy 9th edition:

Madison County, Indiana
Taxonomic Classification of the Soils
(An asterisk in the first column indicates a taxadjunct to the series.)

Soil name	Family or higher taxonomic class
Blount	Fine, illitic, mesic Aeric Epiaqualfs
Brookston	Fine-loamy, mixed, superactive, mesic Typic Argiaquolls
Camden	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Celina	Fine, mixed, active, mesic Aquic Hapludalfs
Crosby	Fine, mixed, active, mesic Aeric Epiaqualfs
Edwards	Marly, euic, mesic Limnic Haplosaprists
Eel	Fine-loamy, mixed, superactive, mesic Fluvaquentic Eutrudepts
Fox	Fine-loamy over sandy or sandy-skeletal, mixed, superactive, mesic Typic Hapludalfs
*Fox	Fine-loamy, mixed, superactive, mesic Typic Hapludalfs
*Fox	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Genesee	Fine-loamy, mixed, superactive, mesic Fluventic Eutrudepts
Hennepin	Fine-loamy, mixed, active, mesic Typic Eutrudepts
Homer	Fine-loamy over sandy or sandy-skeletal, mixed, active, mesic Aeric Endoaqualfs
Houghton	Euic, mesic Typic Haplosaprists
Kokomo	Fine, mixed, superactive, mesic Typic Argiaquolls
Mahalasville	Fine-silty, mixed, superactive, mesic Typic Argiaquolls
Miami	Fine-loamy, mixed, active, mesic Oxyaquic Hapludalfs
*Miami	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Morley	Fine, illitic, mesic Oxyaquic Hapludalfs
Ockley	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Palms	Loamy, mixed, euic, mesic Terric Haplosaprists
Pewamo	Fine, mixed, active, mesic Typic Argiaquolls
Rodman	Sandy-skeletal, mixed, mesic Typic Hapludolls
Ross	Fine-loamy, mixed, superactive, mesic Cumulic Hapludolls
Shoals	Fine-loamy, mixed, superactive, nonacid, mesic Fluventic Endoaquepts
Sleeth	Fine-loamy, mixed, active, mesic Aeric Endoaqualfs
Sloan	Fine-loamy, mixed, superactive, mesic Fluvaquentic Endoaquolls
Udorthents	Udorthents
Wallkill	Fine-loamy, mixed, superactive, nonacid, mesic Fluvaquentic Humaquepts
Washtenaw	Fine-loamy, mixed, active, nonacid, mesic Aeric Fluvaquents
Westland	Fine-loamy, mixed, superactive, mesic Typic Argiaquolls

*Fox fine-silty taxadjunct is for map unit FrA
*Fox fine-loamy taxadjunct is for map units FsA, FsB, FsB2, FsC, FsC2 and FxB3
*Miami taxadjunct is for map units MnE2 and MpE3

MADISON COUNTY, INDIANA
AMENDMENT NO. 1

Approval Signatures and Date

_____	_____	_____	_____
TRAVIS NEELY	Date	J. XAVIER MONTOYA	Date
State Soil Scientist/MLRA Leader		Acting State Conservationist	
Indianapolis, Indiana		Indianapolis, Indiana	